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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके

[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

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The following person has been registered as a Patent Agent under the provisions of Section 126 of the Patents Act, 1970 :—

1. Shri Nair M. Ramkrishnan,
C/o. M/s. R. K. Dewan & Co.,
78, Podar Chambers,
S.A. Brelvi Road, Fort,
Bombay-400 001.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 017

9th February, 1984

94/Cal/84. Westinghouse Electric Corporation. Thyristor self-protected by remote punch through.

95/Cal/84. Arc Technologies Systems Ltd. Electrode for electric arc furnaces.

96/Cal/84. Metallgesellschaft Aktiengesellschaft. Process for the direct reduction of iron oxide-containing sintered-material to sponge iron in a rotary kiln.

97/Cal/84. Fluorocoat Limited. A method for coating a substrate with a fluorocarbon polymer composition. [Divisional date 11th August, 1980].

98/Cal/84. Westinghouse Electric Corporation. Self protected thyristor and method of making.

10th February, 1984

99/Cal/84. Jayant Lal Pal. A well structure.

100/Cal/84 Kazumasa Sarumaru. Apparatus for vulcanizing a tire.

13th February, 1984

101/Cal/84. (1) Dennis R. Mitchell, (2) Jay R. Mitchell and (3) John Rosko. Method for bonding electrical conductors to an insulating substrate.

14th February, 1984

102/Cal/84 Isover Saint-Gobain Improvement in the distribution of fibres in a felt.

103/Cal/84 Westinghouse Electric Corporation Erosion resistant elbow for solids conveyance.

15th February, 1984

104/Cal/84. The Babcock & Wilcox Company. Temperature-actuated flow control device.

105/Cal/84 American Hoechst Corporation. Stable aqueous liquid composition of reactive dyes containing β-sulfatoethylsulfonyl roups.

106/Cal/84 American Hoechst Corporation. Fiber-reactive yellow azo dyestuffs.

107/Cal/84 American Hoechst Corporation Fiber-reactive navy disazo dyestuffs.

108/Cal/84. American Hoechst Corporation Water-soluble-monoazo compounds, process for their preparation and their use as dyestuffs.

109/Cal/84 Blohm+Voss AG Ship with several decks and longitudinal and transverse carrying members.

110/Cal/84 White Consolidated Industries Inc. Muffler systems for refrigeration compressor.

111/Cal/84. Stone & Webster Engineering Corporation. Low residence time solid-gas separation device and system. [Divisional date 4th July, 1980].

ALTERATION OF DATE

152692

(240/Cal/82). Ante dated to 4th May, 1978.

COMPLETE SPECIFICATION ACCEPTED

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Class. $32F_1$. 152685.

Int. Cl. C07c 103/30.

PROCESS FOR THE PREPARATION OF 2-HALOACETAMIDES.

Applicant : MONSANTO COMPANY, AT 800 NORTH LINDBERGH BOULEVARD, ST. LOUIS, MISSOURI 63166, UNITED STATES OF AMERICA.

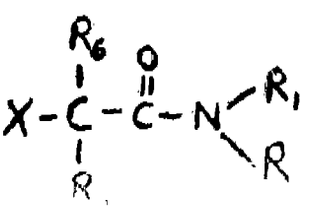
Inventors : JOHN PAUL CHUPP AND RICHARD DON GOODIN.

Application No. 293/Cal/81 filed March 18, 1981.

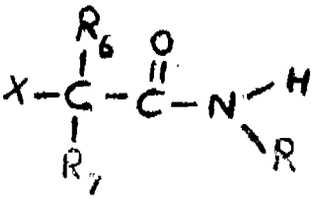
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

73 Claims.

Process for the preparation of 2-haloacetamides for formula I.



shown in the accompanying drawings, which comprises converting a compound of formula II shown in the drawings, to



an anion thereon under basic conditions by electrolysis or reaction with alkali metal hydrides, flourides, oxides, hydroxides, carbonates, phosphates or alkoxides, and reacting said anion with a compound of formula III

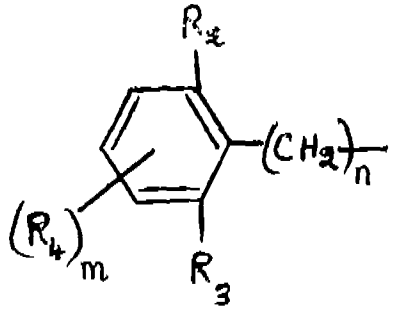
$$R_1X^1$$

shown in the drawings, wherein in the said formulae :

X is chlorine, bromine or iodine;

X^1 is chlorine, bromine, iodine or a halogen equivalent;

R is hydrogen, C_{1-18} alkyl, C_{3-8} alkenyl, alkynyl or alkoxyalkyl, polyalkoxyalkyl, C_{3-7} cycloalkyl or cycloalkylalkyl, C_{5-7} cycloalkenyl or cycloalkadienyl which may be substituted with C_{1-8} alkyl groups; saturated or unsaturated heterocyclic radicals having upto 6 ring atoms containing O, $S(O)_a$ and/or $N(R_6)_b$ groups; or a radical of the formula IV



shown in the drawings, wherein

a is 0-2 inclusive;

b and n are 0 or 1;

m is 0-3 inclusive when R_2 and R_3 are other than hydrogen and 0-5 otherwise.

R_2, R_3, R_4 and R_5 are independently hydrogen, C_{1-8} alkyl, alkoxy, polyalkoxy or alkoxyalkyl, C_{2-8} alkenyl, alkenyloxy, alkynyl or alkynyloxy, C_{6-10} aryl, aryloxy, aralkyl or aralkyloxy, NO_2, halogen, CF_3, $(CH_3)_3$-Si-, saturated or unsaturated heterocyclic radical having up to 6 ring atoms containing O, S(O) and/or $N(R_5)_b$ groups or R_2, R_3 or R_4 when combined with the phenyl radical to which attached may form a C_{6-10} aryl radical; or, when not a hydrogen atom, the R group may be substituted with an R_2-R_5 group;

R_1 is C_{1-18} alkyl, C_{3-18} alkenyl or alkenyl, C_{2-18} alkoxyalkyl cycloalkyl or cycloalkylalkyl, C_{8-10} aralkyl, alkylthiomethyl, C_{3-7} cycloalkyl or cycloalkylalkyl, C_{6-10} aralkyl, alkylthiomethyl, cyanomethyl, loweracyloxymethyl, loweralkyltriocarbomethyl, substituted or unsubstituted carbamoylmethyl, benzothiazolininylmethyl, phthalimidomethyl, mono- or di- loweracyalmidomethyl, or C_{1-10} hydrocarbyl-sulfonylamidomethyl groups or said R_1 member substituted with an R_2-R_5 member which is inert under reaction conditions, provided that when R_1 is an alkenyl radical it cannot have an olefinic bond on the carbon atom attached to the nitrogen atom and R_6 and R_7 are independently hydrogen or alkyl, cycloalkyl, alkenyl, cycloalkenyl, or aromatic hydrocarbon each having up to 12 carbon atoms.

Comp. Specn. 59 pages. Drgs. 1 sheet.

Class. $32F_{2c}$ 152686.

Int. Cl. C07c 129/02.

PROCESS FOR THE PRODUCTION OF GUANIDINE NITRATE FROM A MIXTURE OF UREA AND AMMONIUM NITRATE AND APPARATUS FOR ITS PERFORMANCE.

Applicant : INDUSTRIE CHEMIE THOMA GMBH & CO., PRODUKTIONS KG., BEUTHENER STR. 2, D-8264 WALDKRAIBURG, FEDERAL REPUBLIC OF GERMANY.

Inventor : MATTHIAS THOMA.

Application No. 324/Cal/81 filed March 25, 1981.

Appropriate office for Opposition Proceedings (Rule 4) Patents Rules, 1972) Patent Office, Calcutta.

20 Claims.

Improvements in a process for the production of guanidine nitrate from a mixture of urea and ammonium nitrate in the presence of a catalyst containing silicon oxide at a temperature above the reaction temperature of the reactants and wherein the initial mixture of urea and ammonium nitrate contains an excess of ammonium nitrate and the formed guanidine nitrate is separated off in a known manner characterized by the improvement that the weight ratio between urea and ammonium nitrate in the reaction mixture is maintained at a constant excess of ammonium nitrate upto the final phase of conversion of the entire urea present, whereafter the amount of this ammonium nitrate excess is further increased within the weight ratio of upto 1:6 in the final phase.

Compl. Specn. 41 pages. Drgs. 2 Sheets.

Class. 190C. 152687.

Int. Cl. F15c 3/00, 4/00.

HYDRAULIC DRIVE APPARATUS FOR A TURBINE VALVE.

Applicant : KRAFTWERK UNION AKTIENGESELLSCHAFT, 433 MULHEIM (RUHR), WIESENSTR. 55, FEDERAL REPUBLIC OF GERMANY.

Inventor : HANS-JOACHIM LEUPERS.

Application No. 503/Cal/81 filed May 13, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

Hydraulic drive apparatus for a turbine valve, which comprises : a hydraulic cylinder, which, in use, is connected to a member of said valve; a hydraulic control unit for controlling the supply of hydraulic fluid to the hydraulic cylinder; a hydraulic supply system which is connected to the hydraulic control unit, and a support structure, for attachment to a housing of the valve, to which support structure the hydraulic cylinder, the hydraulic control unit and the hydraulic supply system are secured with at least some hydraulic conduits being at least partially provided in the support structure.

Compl. Specn. 16 pages. Drgs. 3 Sheets.

Class. 29D. 162688.

Int. Cl. G06f 7/00.

A WAVEFORM GENERATOR.

Applicant : BARR & STROUD LIMITED, OF CAXTON STREET, ANNIESLAND, GLASGOW G13 1HZ, SCOTLAND.

Inventor : LAN HARRISON HOWIE.

Application No. 540/Cal/81 filed May 22, 1981.

Convention date 22nd May, 1980 (8017013) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A waveform generator for generating a plurality of repetitive rectangular wave type waveforms having a common repetition period which is an integral number of periods of a clock signal, each waveform being digital (i.e. either ON or OFF) and having transitions between ON and OFF occurring synchronously with pulses of the clock signal, said generator comprising :

a digital storage device preprogrammed with waveform data and with time interval data for said waveforms, said time interval data identifying the time intervals between successive transitions of the plurality of said waveforms over

their common repetition period and said waveform data identifying the respective amplitudes of the plurality of waveforms during each said time interval,

address means including an address counter for addressing the storage device to deliver selected data at the output of the storage device,

an interval counter and a waveform-delivery latch connected in parallel to the output of the storage device, and

a clock pulse source connected to the count input of the interval counter to advance the count number in the interval counter,

wherein said interval counter includes a loading circuit which is intermittently activated by the interval counter attaining a predetermined count number, the activated loading circuit being effective to load data at the output of the storage device into the interval counter and to preset the count number therein to a value determinded by the loaded data, means included in said loading circuit for delivering a first output signal to said latch to condition the latch to transfer the data at the output of the storage device to the latch output each time the count number for the interval counter equals a fixed small number of clock pulses less than said predetermined count number, for delivering a second output signal to the count input of the address counter to advance the count therein, and for delivering a third output signal as an address bit in addition to the address bits from the said address counter to address the storage device to deliver time-interval data for loading into said interval counter, and means for delivering a further output signal as an address bit in addition to the address bits from the said address counter to address the storage device to deliver waveform data for transfer to the latch output each time a fixed small number of clock pulses has been delivered to the interval counter after attainment of said predetermined count number.

Compl. Spcn. 10 pages. Drg. 1 Sheet.

Class. 194 C_6 c. 152689.

Int. Cl. H 01 j 61/00.

HIGH-INTENSITY-DISCHARGE LAMP WHICH HAS IMPROVED COLOR RENDITION OF ILLUMINATED OBJECTS.

Applicants : WESTINGHOUSE ELECTRIC CORPORATION OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. WILLIAM ANDRUS THORNTON, JR. AND 2. DANIEL ALFRED LARSON.

Application No. 569/Cal/81 filed May 28, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A high-intensity-discharge lamp intended for operation at a predetermined wattage input which comprises :

a sealed elongated radiation-transmitting arc tube having electrodes operatively disposed therein proximate the ends thereof, a sealed light-transmitting protective envelope in which said arc tube is operatively mounted with the environment enclosed by said protective envelope being non-reactive for the lamp elements enclosed thereby, electrical lead-in means sealed through said arc tube and connecting to said electrodes, electrical adaptor means affixed to the outer surface of said protective envelope to facilitate electrical connection to a source of electrical power, and electrical conductor means electrically connecting said electrical adaptor means to said electrical lead-in means, said arc tube enclosing discharge-sustaining constituents plus a small charge of inert ionizable starting gas, the principal discharge-sustaining constituent in said arc tube being mercury present in predetermined amount to provide a predetermined voltage drop between said electrodes when said lamp is operating at said rated wattage input, and cadmium included within said arc tube as a supplemental discharge-sustaining constituent, and the weight ratio of said mercury constituent to said cadmium constituent in said arc tube being from 50:1.5 to 50:0.2; and

a predetermined amount of finely divided phosphor means carried as a coating on the inner surface of said protective envelope, said phosphor means principally comprising trivalent-europium-activated phosphor having a strong red emission located at about 620 mm.

Compl. Specn. 8 pages. Drg. 1 Sheet.

Class. 187 C_1. 152690.

Int. Cl. G 08 b 11/00; G 08 c 9/00.

A MODULAR TELECOMMUNICATION SYSTEM FOR EXCHANGING DATA BETWEEN ANY PAIR OF A MULTIPLICITY OF DATA TERMINALS.

Applicants : SIMENS AKTIENGESELLSCHAFT OF BERLIN AND MUNICH, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. WILLIAM GESEK AND 2. JAMES M. MAJOR.

Application No. 740/Cal/81 filed July 4, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

A modular telecommunication system for exchanging data between any pair of a multiplicity of data terminals, said telecommunication system including a plurality of switching blocks and a plurality of interconnecting lines for interconnecting said switching blocks, each of said switching blocks adapted to be connected to a respective group of data terminals and having :

(a) line terminators adapted to be connected to a respective one of said data terminals;

(b) a central processing system for establishing communication links by means of channels assigned to a call during a call set-up phase upon request of one of said data terminals;

(c) a communications controller for independently controlling local data transfers from and to said line terminators across real channels during a call-connect phase; and

(d) an interface unit coupling said switching block to a respective one of said interconnecting lines for providing remote date transfers from and to a data terminal associated with a different switching block, the improvement comprising :

a virtual channel controller having :

(1) groups of inputs and outputs, each including data inputs, data outputs, control inputs and control outputs, each of said groups of inputs and outputs being connected to a respective one of said central processing system, said communications controller and said interface units;

(2) six groups of buffered data switches, each data switch having a switch control input, a switch data input, and a switch data output, said groups of switches being arranged in pairs between said data inputs and said data outputs of said virtual channel controller in such a manner that each group of data inputs associated with one of the devices connected to said virtual channel controller is coupled via a group of data switches to a respective group of data outputs associated with the others of said devices; and

(3) a data transfer control unit for controlling of transmitting of data to a respective one of said devices having first inputs connected to said control inputs, second inputs for receiving enabling signals, having outputs each connected to a respective one of said control outputs of said virtual channel controlelr and to one of said switch control inputs, and including logic networks for decoding routing information accompanying each piece of data information and received at said control inputs of said virtual channel controller.

Compl. Specn. 91 pages. Drgs. 14 Sheets.

Class. 194 C_2 b 152691.

Int. Cl. H 01 j 9/00.

TIPPING-OFF APPARATUS FOR HERMETICALLY SEALING THE EXHAUST TUBULATION OF A DOSED AND OTHERWISE PROCESSED ARC TUBE FOR HIGH-INTENSITY-DISCHARGE DEVICES.

Applicants : WESTINGHOUSE ELECTRIC CORPORATION OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : JOHN JOSEPH MURPHY.

Application No. 1233/Cal/81 filed November 5, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Tipping-off apparatus for hermetically sealing the exhaust tubulation of a dosed and otherwise processed arc tube for a high-intensity-discharge device, said apparatus comprising a portion of a fabricating apparatus for said arc tubes, said fabricating apparatus including a plurality of arc tube holding members each mounted about the peripheral portion of a turret member and being sequentially indexable in a stop-and-go fashion to and from a plurality of operating stations located about the periphery of said turret, said arc tube just prior to being tipped-off comprising an elongated, tubulated body having electrodes operatively positioned proximate the sealed ends thereof with a predetermined discharge-sustaining filling contained within said arc tube body, said arc tube body having an elongated exhaust tubulation projecting laterally therefrom and opening into the interior thereof, said tipping-off apparatus positioned at one of said operating stations and each of said arc tubes upon being indexed into said tipping-off operating station being retained on said, turret by its exhaust tubulation with the arc tube body retained in a vertical orientation and with the atmosphere within said arc tube and said tubulation being a small charge of inert ionizable starting gas, said tipping-off apparatus comprising spring-loaded jaw means movable into retaining position on opposite sides of said arc tube, the spring loading on each of said jaw means being slightly different so that absent the retention of said arc tube by its exhaust tubulation, said arc tube would be moved a predetermined distance by said jaw means, burner means movable into position about the tubulation of said arc tube and operable to heat said tubulation to a softened status at a location proximate the body of said arc tube, and when said tubulation has been sufficiently softened by the heating from said burner means, the spring loading on said jaw means acts to move said arc tube a predetermined distance with respect to said retained tubulation to form a hermetic tip portion of said tubulation; timing means for controlling the movement of said jaw means and said burner means upon said arc tube being indexed to said tipping-off station; jaw and burner moving means operable by said timing means for moving said jaw means and said burner means from the remainder of said retained exhaust tubulation to effect the complete severing of said retained exhaust tubulation from said hermetic tip portion, and said burner means continuing to heat the severed tip portion of said tubulation proximate said arc tube body to effect a fire polishing thereof and then operable to open said jaw means to release the now sealed arc tube.

Compl. Specn. 14 pages. Drgs. 8 Sheets.

Class. 39 E & G. 152692.

Int. Cl. C 01 k 3/02.

POWER PLANTS UTILIZING HEAT STORAGE PONDS.

Applicants & Inventors : PETER JACKSON OF 53/64 CHANCERY LANE, LONDON WC2A 1HN, ENGLAND.

Application No. 240/Cal/82 filed March 2, 1982.

Divisional of application No. 489/Cal/78 filed May 4, 1978

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

A power plant comprising a heat storage pond having a heat storage liquid which is adapted to receive heat and raised to a temperature higher than that of an ambient medium and a thermal insulation layer above the said heat storage liquid to prevent heat losses from said heat storage liquid to the ambient medium at the same time permitting absorption of heat by the heat storage liquid, said insulating layer being an aqueous or non-aqueous gel layer and capable of withstanding the temperature of the heat storage liquid, a heat engine provided for extracting heat from the heat storage liquid in said pond and rejecting said heat into a layer of water in said pond, said heat engine operating on a closed Rankine-cycle utilizing a working fluid different from the heat storage liquid, is characterized in that the heat engine has a first heat exchanger in thermal contact with the heat storage liquid in the said pond for heating the working fluid, an energy converter responsive to the passage of heated working fluid for converting some of the heat into work, and a second heat exchanger in thermal contact with said layer of water in said pond for condensing the working fluid after it exists from the said converter.

Compl. Specn. 10 pages. Drg. 1 Sheet.

Class. 72 A. 152693.

Int. Cl. C 06 b 1/00.

A METHOD OF PRODUCING AN EXPLOSIVE COMPOSITION OF WATER-IN-OIL EMULSION TYPE.

Applicants : E.I. DU PONT DE NEMOURS AND COMPANY OF WILMINGTON, DELAWARE, UNITED STATES OF AMERICA.

Inventors : JAMES HERMAN OWEN.

Application No. 1294/Cal/79 filed December 11, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A method of producing an explosive composition of water-in-oil emulsion-type comprising combining an aqueous solution of an inorganic oxiding salt such as herein described and a carbonaceous fuel such as herein described in the liquid phase with agitation in the presence of a fatty acid and ammonium or alkali metal hydroxide, and incorporating dispersed gas bubbles or voids by a method such as herein described in the resulting water-in-oil emulsion.

Compl. Specn. 24 pages. Drg. Nil.

Class. 131 B_3. 152694.

Int. Cl. E 21 b 49/00.

METHOD FOR MAINTAINING PRESENT PARAMETERS OF DRILLING MUD DELIVERED INTO A PRODUCTIVE BED IN THE FORMATION OF PETROLEUM, NATURAL GAS AND LIKE WELLS.

Applicants : SREDNEAZIATSKY NAUCHNO-ISSLEDOVATELSKY INSTITUT PRIRODNOGO GAZA OF TASHKENT, ULITSA T. SHEVCHENKO, 2, U.S.S.R.

Inventors : 1. ULMAS DZHURAEVICH MAMADZHANOV, 2. VITOLD MIKHAILOVICH BAKHIR AND 3. STANISLAV AFANASIEVICH ALEKHIN.

Application No. 371/Cal/80 filed March 31, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A method for maintaining present parameters of a drilling mud delivered into a productive bed in the formation of petroleum, natural gas and like wells, in which a value of the oxidation-reduction potential (redoxpotential) of a drilling mud is continuously measured at the inlet and outlet of the well, the obtained values are compared, a variation in the value of the redox potential of a drilling mud at the well outlet with respect to the value of the redox potential at the well inlet is registered, thereafter in case of any variation in the content of oxidation products in the drilling mud at the well outlet, the drilling mud is subjected to a unipolar electric treatment (as herein defined) in a vessel wherein are installed a positive electrode and a negative electrode connected to a direct current supply source at the well inlet and the content of reduction reaction products in the drilling mud is increased until the preset value of the redox potential of the drilling mud is restored at the well outlet, and in case of any variation in the content of reduction products in the drilling mud at the well outlet, the drilling mud is subjected to the unipolar electric treatment at the well inlet and the content of oxidation reaction products in the drilling mud is increased until the preset value of the redox potential of the drilling mud is restored at the well outlet.

Compl. Spcn. 13 pags. Drgs. 1 Sheet.

Class. 32 E; 152 E; 164 C. 152695.

Int. Cl. C 02 c 1/00; C 08 f 29/00.

A PROCESS FOR THE PREPARATION OF WATER-SOLUBLE MIXTURES CONTAINING QUATERNARY AMMONIUM POLYMERS.

Applicants : BUCKMAN LABORATORIES INC., OF 1256 NORTH MCLEAN BOULEVARD, MEMPHIS, TENNESSEE 38108, U.S.A.

Inventors : 1. ROBERT HENRY BUCKMAN, 2. PHILIP MARTIN HOEKSTRA AND 3. JOHN DOMINIC PERA.

Application No. 607/Cal/80 filed May 23, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A process for the preparation of water-soluble mixtures containing quaternary ammonium polymers, comprising mixing 1 to 10 parts of a quaternary ammonium polymer selected from the group consisting of an amine-epichloronydrin condensation polymer as hereinbefore described and an ionene-polymer as hereinbefore decribed, 0.5 to 7 parts of a vinyl-addition polymer selected from the group consisting of nonionic and cationic high molecular weight vinyl-adqition polymers, and 0.1 to 5 parts of a surfactant selected from the group consisting of nonionic and cationic surtactants, the said components working synergistically, wherein the said polymers may be added as particular solids, as solutions, or as emulsions, and applying heat, if necessary, to facilitate the mixing.

Compl. Specn. 25 pages. Drg. Nil.

Class. 107 F. 152696.

Int. Cl. F 02 p 13/00.

IGNITION COIL.

Applicants : LUCAS INDUSTRIES LIMITED OF GREAT KING STREET, BIRMINGHAM, B19 2XF, ENGLAND.

Inventors : BERNARD ALAN POTTER.

Application No. 610/Cal/80 filed May 24, 1980.

Convention date 25th May, 1979 (18381/79) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

An ignition coil, for use in an internal combustion engine spark ignition system, including a hollow casing closed at one end by a base and closed at its opposite end by an electrically insulating cap carrying at least the high voltage output terminal of the coil, primary and secondary windings within the casing, an annular resilient sealing gasket trapped between mutually presented faces of the casing and the cap to seal the interface of the casing and the cap, and, the casing having, adjacent said gasket, at least one localised region so shaped as to provide a weak point as hereinbefore described in the seal effected by the gasket between the casing and the cap, whereby when the pressure within the casing exceeds a predetermined value the sealing action at said weak point fails so relieving the excess pressure in the casing.

Compl. Specn. 9 pages. Drg. 1 Sheet.

Class. 63 H. 152697

Int. Cl. H 01 f 1/00.

SWITCHABLE PERMANENT MAGNET HOLDING DEVICE.

Applicants : KANETSU KOGYO KABUSHIKI KAISHA OF 1111 OAZA UEDAHARA, UEDA-SHI, MAGNO-KEN, JAPAN.

Inventors : 1. MAMORU UCHIKUNE, 2. KIYOSHI YANAGISAWA, 3. MUTSUKAZU TAGAMI, 4. TAKETO SHIMIZU, 5. KUNIO HORIUCHI AND 6. HIROO SAKAGUCHI.

Application No. 860/Cal/80 filed July 26, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A switchable permanent magnet holding device comprising a magetic circuit block consisting of a pair of magnetic pole members respectively having a magnetism acting surface, and a non-magnetic plate disposed between said pair of magnetic pole members, said magnetic circuit block being provided with a bore having a circular cross section and running in parallel to the non-magnetic plate;

a permanent magnet disposed in said bore rotatably about the central axis of said bore and adapted to be switched between a position in which said magnetism acting surfaces of said block become non-exciting and a position in which said magnetism acting surfaces thereof become exciting; and,

a stopper for impeding rotation of the permanent magnet, said stopper being adapted to engage said permanent magnet rotated to a position over a predetermined angle of rotation at which said magnetism acting surfaces of said block become exciting and said magnetic circuit block is maintained in a state of magnetic equilibrium, when said permanent magnet is turned in one direction, in order to switch the non-excited state of the magnetism acting surafce of said block to the exciting state.

Compl. Specn. 10 pages. Drgs. 2 Sheets.

Class. 63 B; & 133 A. 152698.

Int. Cl. H 02 k 3/00; H 02 p 1/00.

POLYPHASE ELECTRIC MACHINE BEING A MOTOR OR A GENERATOR.

Applicants : WANLASS TECHNOLOGIES INCORPORATED OF 1700 EAST WINSTON ROAD ANAHEIM, CALIFORNIA, UNITED STATES OF AMERICA.

Inventors : CRAVENS LAMAR WANLASS.

Application No. 947/Cal/80 filed August 19, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims.

A polyphase electric machine being a motor or a generator comprising :

a stator including a core of magnetic material:

a rotor;

a main polyphase stator winding having a winding for each phase would on said core and encompassing said magnetic material;

a plurality of input terminals adapted to be connected to a source of polyphase AC voltage;

a plurality of capacitors;

means connecting the main windings of each phase in a series circuit with one of said capacitors and said series circuits being connected with said input terminals; and

a polyphase control winding having a winding for each phase would on said core to encompass said magnetic material and connected to a plurality of input terminals together with the respective main windings being would in an opposite sense.

Compl. Specn. 27 pages. Drgs. 3 Sheets.

Class. 126 C. 152699.

Int. Cl. G 01 r 1/00.

AN ELECTRIC METER WITH MEANS FOR DETECTING IF IT IS TAMPERED WITH FOR PILFERAGE OF ELECTRICITY.

Applicants & Inventors : NARASHINHA GOVIND KAMAT OF 5TH FLOOR, SARASWATI NIKET, 5, CAMAC STREET, CALCUTTA-700 017, STATE OF WEST BENGAL, INDIA.

Application No. 969/Cal/80 filed August 23, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

An electric meter with means for detecting if it is tampered with for pilferage of electricity which comprises in providing behind the usual front cover of the meter a movable inner cover, said inner cover having fitted at its sides one or more actuating means in co-operation with and/or in front of a metal body insulatingly fitted on the base plate of the meter, a fuse fitted on the base plate, so that when a hole is drilled in the front cover of the meter, the said inner cover moves inwardly towards the base plate thereby causing the actuating means to come in contact with the metal body whereby if the supply is ON, the fuse is blown off and if the supply is OFF and there is load shedding a rod in the said metal body actuated by the actuating means get latched such that when the supply of electricity is resumed the fuse is blown off.

Compl. Specn. 9 pages. Drgs. 2 Sheets.

Class 37 B 152700.

Int. Cl. B 04 b 13/00, 15/00.

A CENTRIFUGAL APPARATUS INCLUDING A ROTARY CENTRIFUGAL BASKET AND MEANS FOR DELIVERING A FLOW OF CHARGE MATERIAL INTO THE BASKET.

Applicants : THE WESTERN STATES MACHINE COMPANY OF 1798 FAIRGROVE AVENUE, HAMILTON, OHIO 45012, U.S.A.

Inventors : JOSEPH BERNARD BANGE.

Application No. 1266/Cal/79 filed December 4, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A centrifugal apparatus including a rotary centrifugal basket and means for delivering a flow of charge material into the said basket while the basket is rotated to form a charge wall against the side wall of the basket in a charge space, wherein the thickness of the charge wall formed against the side wall of the rotating basket comprise capacitor means for establishing a capacitance across the charge space of the basket, said capacitor means including two spaced capacitor plates one of which is spaced inwardly of said charge space, means for sensing a charge of said capacitance resulting as the inner surface of said charge wall approaches said one plate during the formation and consequent increase in thickness of said charge wall in the charge space within the basket; said one of said capacitor plates including an electrically conductive plate disposed in the basket inwardly of said charge space and the other of said capacitor plates including said side wall; said capacitor means further comprising means for forming an electric field between said conductive plate and said side wall; and means for curtailing said flow in response to a change of said capacitance sensed by said sensing means; said delivering means includes a loading gate and gate operating means for moving said gate between fully open and closed positions thereof to control said flow of charge material said curtailing means including means responsive to the sensing by said sensing means of a certain value of said capacitance, corresponding to a desired maximum thickness of said curtailing means further including (a) means responsive to the sensing by said sensing means of a value of said capacitance near to said certain value for activating said gate operating means to move said gate from fully open position to a pinched open position or (b) means responsive to the sensing by said sensing means of certain changes of said capacitance for activating said gate operating means to move said gate from fully open position gradually to closed position.

Compl. Specn. 24 pages. Drgs. 2 Sheets.

Class. 90 F. 152701.

Int Cl. C 03 b 37/04.

PROCESS AND APPARATUS FOR THE FIBERIZATION OF MOLTIN GLASS.

Applicants : SAINT-GOBAIN INDUSTRIES OF 62 BOULEVARD VICTOR HUGO, F 92209 NEUILLY SUR SEINE, FRANCE.

Inventors : 1. JEAN ANTOINE BATTIGELLI, 2. IGOR FEZENKO, 3. FRANCOID BOUQUET AND 4. JEAN-JACQUES MASSOL.

Application No. 1316/Cal/79 filed December 17, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

20 Claims.

Process for the fiberization of molten glass with the assistance of a vertical spinner comprising a peripheral wall provided with a plurality of rows of orifices to discharge streams of glass by centrifugal action, and located inside an annular downwardly directed current of attenuating gas, characterised by feeling all of the gas to be fiberised to the zone of the upper row or rows of orifices, thus establishing a downward laminar flow of glass on the internal surface of the peripheral wall of the spinner in the form of an unrestrained and essentially unhindered layer beneath the rows of ejection.

Compl. Specn. 50 pages. Drgs. 5 Sheets.

Class. 39 E & J; & 153. 152702.

Int. Cl. B 23 p 5/00; C 01 b 31/30; C 09 k 3/14.

A PROCESS FOR PRODUCING AN INTEGRAL COMPOSITE OF POLYCRYSTALLINE DIAMOND AND/OR CUBIC BORON NITRIDE BODY PHASE AND SUBSTRATE PHASE.

Applicants : GENERAL ELECTRIC COMPANY OF RIVER ROAD SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : CHARLES ROBERT MORELOCK.

Application No. 1349/Cal/79 filed December 27, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A process for producing a self supporting composite as described herein which process comprises the following steps :—

(i) taking a crystal-containing carbonaceous mass composed of at least a substantially uniform mixture of diamond and/or cubic boron nitride crystals and a carbonaceous material as herein described wherein none of the surfaces of said crystals are exposed and wherein said crystals are enveloped and separated from each other by at least a coherent continuous coating of said carbonaceous materials on said crystals, said carbonaceous material being selected from the group consisting of elemental non-diamond carbon, anorganic material as herein described and mixtures thereof, said organic material present being on decomposition capable of producing the crystal surfaces at least a coherent continuous coating of elemental non-diamond carbon;

(ii) taking a carbonaceous substrate consisting essentially of elemental non-diamond carbon, a solid organic substrate material as herein described and mixtures thereof;

(iii) taking a mold with a cavity of desired size and shape and means for introducing fluid silicon into said cavity and means for maintaining a partial vacuum in said cavity;

(iv) filling said cavity with a preform comprises of said crystal-containing carbonaceous mass as defined above in contact with said carbonaceous substance forming an interface therewith and confining said preform therein, said preform being the form desired of said composite, said organic material and said solid organic substrate material decomposing at a temperature below 1400°C. to elemental non-diamond carbon and gaseous product of said decomposition and being on decomposition capable of producing at least sufficient elemental non-diamond carbon to maintain said preform;

(v) associating said filled cavity with a mass of silicon;

(vi) the resulting associated structure being subjected to a partial vacuum where the residual gases have no significant deleterious effect on said associated structure;

(vii) heating said associated structure in said partial vacuum to a temperature above 1400°C. at which said silicon is fluid and which does not have a significantly deleterious effect on said crystals and infiltrating said fluid silicon into said preform at least through said crystal-containing carbonaceous mass and at least into contact with the contacting surface of said substrate filling the pores through said interface so that it is at least substantially pore-free, said partial vacuum being at least sufficient to remove gas from said preform which blocks said infiltrating fluid silicon, said infiltrating silicon reacting with non-diamond elemental carbon forming silicon carbide;

(viii) cooling the resulting composite in an atmosphere which has no significant deleterious effect on it;

(ix) recovering by conventional manner the resulting composite of polycrystalline body phase bonded to substrate supporting phase, said polycrystalline body phase being substantially pore-free wherein the crystals ranging from about 1% by volume up to about but less than 80% by volume of the total volume of said polycrystalline body phase are bonded together by a bonding medium comprised of silicon carbide and elemental silicon.

Compl. Specn. 54 pages. Drgs. 3 Sheets.

Class. 155 A. 152703.

Int. Cl. D 21 f 7/00.

APPARATUS FOR METERING COATING ON A WEB TRAVELING ON A BACKING ROLL HAVING A ROD HOLDER.

Applicants : BELOIT CORPORATION OF BELOIT, WI 53511, U.S.A.

Inventors : 1. ROBERT JACOB ALHEID AND 2. ROBERT ORRAL BUDD.

Application No. 48/Cal/80 filed January 14, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Apparatus for metering coating on a web travelling on a backing roll having a rod holder wherein a rod is positioned against a travelling web to meter coating thereon said rod holder including :

a longitudinally extending cavity for receiving a cylindrical rod for rotation therein, said cavity having its bore wall made of a stiff, resiliently deformable materials;

a first pressure surface for receiving and transmitting a correspondingly coextensive first force to the cavity for insuring a uniform nip force between the rod surface and the web on the backing roll; a lip portion coextending with the cavity longitudinally of the rod holder along one side thereof, said lip portion having a second pressure surface for receiving a second force for urging the lip portion to move its associated side of the cavity bore wall inwardly to reduce the bore of a cavity to increase, maintain or reduce the fit of the rod within the cavity, as desired.

Compl. Specn. 18 pages. Drgs. 3 Sheets.

Class. 57 D. 152704.

Int .Cl. E 06 b 5/00.

DOOR CLOSER.

Applicants : PERKINS & POWELL LIMITED OF COBDEN WORKS, LEOPOLD STREET BIRMINGHAM, B12 0UJ, WEST MIDLANDS, ENGLAND.

Inventors : DENNIS HILLIAR CHADDOCK.

Application No. 251/Cal/80 filed March 4, 1980.

Convention date 20th March, 1979(7909779) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A door closer comprising :—

(a) a housing for fitting into a door and an anchor plate for fixing to a door frame adjacent to said door;

(b) a tension member extending longitudinally within the housing and having an outer end portion thereof in the form of an articulated chain which is coupled to said anchor plate;

(c) main spring means in said housing and acting on said tension member urging the latter inwardly of the housing and draw the housing and the anchor plate together so as to close the door;

(d) damping means comprising a piston coupled to said tension member and slidable in a fluid filled chamber which is divided into two compartments with valve means permitting relatively free movement of the fluid from one compartment to the other when the piston is moved in response to movement of the tension member outwardly of the housing, that

is in the door opening direction, but affording sufficient resistance to movement of the fluid in the opposition direction to control the rate of movement of the tension member inwardly of the housing, that is in the door closing direction, under the force of said spring means;

(e) a lost motion means whereby the piston is coupled to said tension member for enabling the tension member to be moved inwardly of the housing in the door closing direction in response to an external force at a rate faster than that determined by said spring means under the control of the damping means; and

(f) additional spring means for maintaining tension in said articulated chain independently of said main spring means.

Compl. Specn. 18 pages. Drgs. 3 Sheets.

Class. 206 A. 152705.

Int. Cl. H 01 q 13/00.

AN INTEGRATED RADAR ANTENNA ARRAY.

Applicants : CONTRAVES ITALIANA S.P.A. OF VIA AFFILE, 102-00131 ROME, ITALY.

Inventors : 1. ALIA FRANCESCO AND 2. BARBATI STEFANO.

Application No. 699/Cal/80 filed June 16, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

An integrated radar antenna array consisting of a first antenna, in which an exciter is positioned at the focal length of a double curvature reflector with different high and width dimensions to generate a first directional radiation pattern, and a second antenna comprising the reflector of the first antenna and a plurality of micro strip surfaces fitted to the double curvature of the reflector and suitably secured thereon, characterized in that the radiating micro strip surface is positioned on the reflector at a distance $d = K \frac{\lambda}{2}$ where λ wavelength of the exciter frequency and K essentially = 0, 1, 2, 3, ...n.

Compl. Specn. 8 pages. Drgs. 2 Sheets.

Class. 40 H. 152706.

Int. Cl. F 25 j 3/08.

PRESSURE SWING ADSORPTION PROCESS.

Applicants : LINDE AKTIENGESELLSCHAFT OF ABRAHAM-LINCOLN-STRASSE 21, D-6200 WIESBADEN, FEDERAL REPUBLIC OF GERMANY.

Inventors : CHRISTIAN BENKMANN.

Application No. 967/Cal/80 filed August 23, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Pressure swing adsorption process for the purification or separation of gaseous mixtures, with the use of several cyclically reversible adsorbers, each of which passes through identical switching cycles, wherein each switching cycle comprises at least one adsorption phase, two expansion phases, a desorption phase, and a pressure buildup phase, characterized in that the desorption is effected by purging with a foreign gas, a displacement phase follows the desorption, and the displacement of the foreign gas is conducted with the aid of a gas or gaseous mixture discharged during an expansion phase.

Compl. Specn. 21 pages. Drgs. 3 Sheets.

Class. 172 D_2. 152707.

Int. Cl. D 02 g 3/00.

IMPROVEMENTS IN THREAD WINDING MACHINE.

Applicants : AKTIENGESELLSCHAFT FR. METTLER'S SOHNE MASCHINENFABRIK, OF 6415 ARTH, SWITZERLAND.

Inventors : TOBIAS HAURI.

Application No. 1056/Cal/80 filed September 17, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

A thread winding machine having a stop motion device comprising a stop motion means for monitoring the passage of thread being wound off a feed bobbin onto a winding bobbin and for interrupting the drive to the winding bobbin in the event of a thread breakage and means controlled by the stop motion means for reducing the spacing between the feed bobbin and the winding bobbin when a thread breakage occurs.

Compl Specn. 15 pages. Drgs. 3 Sheets.

Class. 97 B. 152708.

Int. Cl. H 01 r 3/08.

A NEW NIPPLED JOINT FOR A FURNACE ELECTRODE.

Applicants : SOCIETE DES ELECTRODES ET REFRACTAIRES SAVOIE (SERS) OF 12, RUD DU GENERAL FOY 75008 PARIS, FRANCE.

Inventors : 1. JEAN-MICHEL BOUDEAU, 2. MICHEL LOGUE AND 3. CLAUDE PARISOT.

Application No. 1105/Cal/80 filed September 29, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

An improved nippled joint for furnace electrodes comprising a nipple for assembling graphite electrodes used in arc furnaces wherein breaks are prevented in the said joint due to rapid variation in temperature which the electrodes undergo and in order to distribute the clearance between threads provided with the nipple (N) and the seats of the two electrodes (E_1, E_2) characterized in that the nipple (N) is of two parts shaped like truncated cones, each truncated cone defining two zones, (AB, BC), the first zone (AB) extending from the joining plane (A) of the electrode sections (E_1, E_2) in the direction of the end of the nipple (C) while the second zone (BC) extends from the end of the nipple (C) in the direction of the joining plane (A) of the electrode sections (E_1, E_2) such that the first zone (AB) is of greater length than the second zone (BC) in which the incline of each of the two truncated cones of the nipple expressed by the tangent of the angles of their generatrix with the axis (XY) of the nipple has two successive values so that on a length AB, the generatrix of the threaded cone of the nipple makes an angle α with the axis (XY) of the nipple and beyond the point B, the generatrix BC makes an angle β with the axis XY so that the angle α is smaller than the conventional value of ($tg\ \alpha = 1/6$), for example with $tg\ \alpha$ of about 0.165 and the angle β is greater than the conventional value, for example with tg β of about 0.19 3.

Compl. Specn. 14 pages. Drg. 1 Sheet.

Class. 44. 152709.

Int. Cl. G 04 c 21/00.

TIMEPIECE.

Applicants : HITACHI LTD OF 5-1, MARUNOUCHI 1-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. TAKAHIKO IHOCHI, 2. MASASHI TANAKA, 3. KAZUO KOJIMA AND 4. YUTAKA NAKAJIMA.

Application No. 1177/Cal/80 filed October 15, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims.

A timepiece comprising a casing having a transparent viewing surface; a display unit mounted adjacent said transparent viewing surface a diaphragm having its peripheral portion carried by the casing and serving to generate sound; a piezoelectric element mounted on the diaphragm; and a module arranged to be powered by an electric cell for driving at least one of the display unit and the piezoelectric element; the display Unit, the diaphragm, the piezoelectric element and the module being mounted in said casing with said diaphragm being disposed on the opposite side of said module and said display unit from said viewing surface; characterized in that the diaphragm and the piezoelectric element are ring-like plates respectively having holes at their centers which are substantially coaxial with each other, the space provided by the holes in said diaphragm and said piezoelectric element being used to accommodate at least a part of the electric cell in the casing.

Compl. Specn. 10 pages. Drg. 1 Sheet.

Class. 116 G. 152710.

Int. Class : B65d 19/02.

"PALLET CONSTRUCTION".

Applicant : EXTRADOS COMPANY LIMITED, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE PROVINCE OF ONTARIO, OF 54 CARNFORTH ROAD, TORONTO, ONTARIO, CANADA.

Inventor : FERDINAND MICHAEL SVIRKLYS.

Application for patent No. 441/Del/79 filed on 18th June, 1979.

Convention date 20th June, 1978/(27426/78)/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi 110005.

10 Claims.

A pallet comprising parallel spaced-apart stringer elements with deck forming elements arranged transversely thereof and connected thereto at the intersections by discrete clips mounted to one of the elements, each of the clips comprising a body portion for extending through a respective slot in the other element, and a resilient portion which is resiliently displaced as the clip is inserted in the slot and returns to engage behind the slot when the clip is fully inserted therein so as to retain the transversely arranged elements together.

Compl. Specn. 16 pages Drgs. 4 sheets.

Class. 37 A. 152711.

Int. Class : Bo4 c 7/00.

"MULTIPLE HYDROCYCLONE DEVICE".

Applicant : DORR OLIVER INCORPORATED, A CORPORATED ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 77 HAVEMEYER LANE STAMFORD, CONNECTICUT 06904, UNITED STATES OF AMERICA, ENGINEERS.

Inventors : KENNETH DAN LAWIS ANDREW PAUL CHARLTON PER NYROP & TRISTAN OCTAVIO MEREDIZ.

Application for patent No. 523/Del/79 filed on 18th July 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims.

A multiple hydrocyclone device comprising an enclosed housing having a feed inlet chamber and a pair of spaced discharge chambers, a plurality of stacked cyclone clusters arranged vertically in superimposed sealed relationship within said housing characterized by each cyclone cluster comprising individual and separable internested premolded support members in which are integrally formed a plurality of frustro-conical shaped cyclone bodies each of said cyclone bodies having a main chamber provided with spaced underflow and overflow outlets at opposite ends thereof each opening to one of said spaced discharge chambers in said housing, detachable wortex finedrs provided in said overflow outlet of each cyclone body and ready releasable means provided at the top of said stacked cyclone clusters for maintaining said cyclone clusters in said internested position while allowing for vertical movement of said cyclone clusters relative to each other without effecting said sealed relationship.

Compl. Specn. 20 pages. Drgs. 8 Sheets.

Class. $32F_2(_b)$ & $55E_1$. 152712.

Int. Class : A61k 27/00, Co7d 99/00.

"A PROCESS FOR PREPARING ETHER AND THIO-ETHER MERCAPTOACYL PROLINE DERIVATIVES".

Applicant : E.R. SQUIBB & SONS, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE; MANUFACTURERS; AND WHOSE FULL POST OFFICE ADDRESS IS LAWRENCEVILLE-PRINCETON ROAD, PRINCETON, NEW JERSEY 08540, UNITED STATES OF AMERICA.

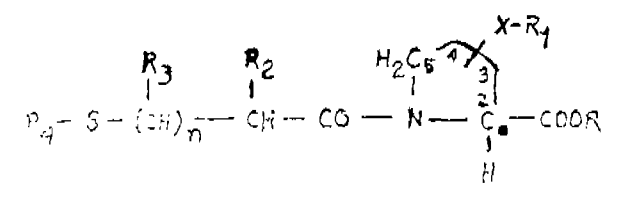
Inventors : MIGUEL ANGEL ONDETTI & JOHN KRAPCHO.

Application for patent No. 524/Del/79 filed on 18th July, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

46 Claims.

A process for preparing ether and thio-ether mercapto-acyl proline derivatives of the formula I



and basic salts thereof wherein the X-R_1 group is located at the 3- or 4- position of the proline ring;

X is oxygen or sulfur;

R is hydrogen or lower alkyl;

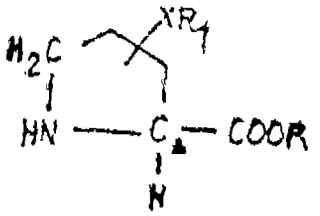
R_1 is lower alkyl, lower alkenyl, lower alkynyl, phenyl, substituted phenyl, phenyl-lower alkylene, or substituted phenyl, lower alkylene;

R_2 and R_3 are independently selected from hydrogen, lower alkyl and trifluoromethyl;

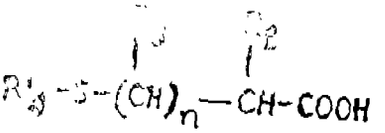
R_4 is hydrogen, R_5-C(=O)-;

R_5 is lower alkyl, phenyl, or phenyl-lower alkylene; and

n in 0, 1 or 2, characterized by coupling a proline compound of the formula II



wherein R and R_1 are as previously defined with an acid or its chemical equivalent such as herein described of the formula III



Whereas R_4 is hydrogen or R_5-CO-to form a product

Wherein R_4 is hydrogen or R_5 CO.

Compl. Specn. 70 pages. Drgs. 4 Sheets.

Class. 150 G. 152713.

Int. Class : F 16 1 17/00.

"INTERNALLY COMPENSATED SELF-ALIGNING ROTARY JOINT COUPLING".

Applicant : THE JOHNSON CORPORATION OF 805 WOOD STREET, THREE RIVERS, MICHIGAN, A CORPORATION OF THE UNITED STATES AMERICA.

Inventors : ROGER DON WIEDENBECK & ELDON DOUGLAS JACKSON.

Application for patent No. 526/Del/79 filed on 20th July, 1979.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Banch, New Delhi-110005.

10 Claims.

An internally compensated rotary joint coupling for handling pressurized fluids characterized by its ability to accommodate axial expansion, minimize rotative friction and be self-aligning comprising, in combination, a hollow body member having an axis, ends and defining a chamber, an annular wear plate mounted upon one of said body member ends and having a central opening defined therein, a tubular nipple member having first and second ends, said nipple member extending through said wear plate opening wherein said first end is located within said body member chamber, mounting means defined on one of said members for fixing said member against axial and rotative movement, an annular nipple seal axially slidably mounted on said nipple member first end within said chamber having an annular sealing surface facing said wear plate, key means keying said nipple seal to said nipple member to prevent relative rotational movement thereto, an annular seal ring interposed between said sealing surface and wear plate and sealingly engaged thereby, and an opening defined in said body member for establishing fluid medium communication between said chamber and the fluid medium to be conveyed through the rotary joint the sole mechanical inter-connection between said body member and said nipple member being through the said seal ring.

Compl. Specn. 18 pages. Drgs. 2 Sheets.

Class. 10 B. 152714.

Int. Class : F42c 9/02, 1/00.

"ELECTRICALLY ACTUABLE IGNITING DEVICE FOR TRIGGERING MECHANICAL PERCUSSION DETONATORS".

Applicant : REDON TRUST, A LIMITED LIABILITY COMPANY OF THE PRINCEDOM OF LIECHTENSTEIN, VADUZ., LIECHTENSTEIN, SWITZERLAND.

Inventor : JOSEPH MARER.

Application for patent No. 532/Del/79 filed on 24th July, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims.

An electrically actuable igniting device for triggering mechanical percussion detonators comprising :

a tubular container;

a striker slidable in said container;

a percussion pin carried at the end of said striker;

an annular groove in the peripheral wall of said container;

a pair of steel balls in contact with said striker at diametrically opposite ends in said annular groove;

elastic ring means adapted to maintain said balls in said groove;

a recessed cover having electrical plug means, said cover being adapted to be screwed into an end of said tubular container;

an explosive cap located in said recessed cover;

a detonator holder detachably secured to the other end of said tubular contanier below said percussion pin;

and at least one mechanical detonator charge located in said detonator holder.

Compl. Specn. 7 pages. Drgs. 2 Sheets.

Ind. Cl. 77C + 40B. *152715.*

Int. Cl. C11C 3/00, B01j 11/00.

Title : A METHOD FOR PREPARING NON-EDIBLE DEHYDROXYLATED SHORT CHAIN (C_1 to C_4) ESTERS OF HARDENED CASTOR ACIDS FOR USE IN SOAP MAKING, LUBRICANTS AND PAINTS.

Applicant : HINDUSTAN LEVER LIMITED A COMPANY INCORPORATE, UNDER THE INDIAN COMPANIES ACT, 1913, AND HAVING ITS REGISTERED OFFICE AT HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors (1) GANAPATHI SRINIVASAN (2) RAMARAJU SREERAM MURTHY.

Application No. 171/BOM/1980 filed on June 17, 1980.

Complete after provisional left on 4th September, 1981.

7 Claims.

A method for preparing non-edible dehydroxylated short chain for use in soap making, lubricants and paints (C_1 to C_4) esters of hardened castor acids which comprises subjecting to dehydroxylation said esters with a co-gelled silica-alumina catalyst containing from 0.5 to 25% by weight of alumina prepared by a process as herein described and used in an amount of 0.5% to 10% by weight of the said esters at temperature in the range of 150°C to 350°C.

Provisional Specification 10 pages. Drawings Nil.

Complete Specification 12 pages. Drawings Nil.

Class. 39-L. 152716.

Int. Cl. C 04 b 1/00.

A PROCESS FOR THE PRODUCTION OF HIGH PURITY LIME.

Applicants & Inventors : (1) CHITTETH KUMARAN NAIK, OF VIJAYALAKSHMY MANIDRAM, EAST CHALAKUDY, CHALAKUDY, VILLAGE TRICHUR, KERALA & (2) PADHMANAB VENUGOPAL MENON, OF XLVIII/1308, EDAPALLY, COCHIN-24, KERALA.

Application No. 75/Mas/81 filed April 10, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims.

A process for the production of high purity lime comprising the charging of raw material such as herein described into the feeding end of a kiln at the top thereof; calcining the raw material to lime in a heating zone during its downward travel in the kiln, the calcining being effected by radiated heat electrically generated within the kiln; discharging the lime from the delivery end of the kiln at the bottom thereof characterised in that an upward draft of cold airfrom the delivery end and CO_2 from the heating zone is induced in the kiln simultaneously, whereby the lime descending from the heating zone is cooled in a cooling zone by releasing heat to the upcoming cold air from the delivery end and the raw material, descending to the heating zone, is preheated and thus rendered dry-hot by absorbing heat from the upcoming hot CO_2 and heated air leaving the cooling zone.

Compl. 7 pages. Drg. 1 Sheet.

Class. 98I. 152717.

Int. Cl. F 24 j 3/02.

IMPROVEMENTS RELATING TO SOLAR HEATER.

Applicant & Inventor : KISHEN GOPAL PANJE, "GOKUL", 10-3-74 E NEHRU NAGAR, SECUNDERABAD-500 026, A.P.

Application No. 133/Mas/81 filed July 17, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

1 Claim.

A continuous circuit solar heater comprising, a feed inlet tank (OST), a feed inlet (I), one or more flat absorber tanks (C1 C2) connected to an elevated airtight insulated storage drum SD, by convection tubes (T1, T2), the outlet from the storage drum is through utility outlets (W1, W2) located at a level below the feed inlet tank, the arrangement being such that water is discharged to the utility outlets by syphonic action.

Compl. 5 pages. Drgs. 2 Sheets.

Int. Cl. 77 D+83A1 & 3+83B3.

Int. Cl. C11C1/00.

PROCESS FOR BLEACHING A NATURALLY OCCURRING OIL OR FAT CONTAINING A COLOURED IMPURITY.

Applicant : HINDUSTAN LEVER LIMITED OF 165/166 BACKBAY RECLAMATION BOMBAY-400 020, MAHARASHTRA INDIA A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT 1913.

Inventors : 1. KEITH JONES 2. FRANCIS ROBERT MAXWELL MCDONNELL 3. STUART NICHOLAS MORGAN 4. DAVID WILLIAM THORNTHWAITE.

Application No. 318/BOM/80 filed on October 22, 1980.

Convention Priority (U.K.) 25-10-1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

13 Claims.

1. A process for bleaching a naturally occurring oil or fat as herein described containing a coloured impurity, characterised in that the oil or fat is treated with an aqueous solution of a polar oxidative bleaching agent selected from hypochlorites, chlorites, peroxides and peroxoacids in the presence of a cationic phase transfer catalyst selected from quaternary ammonium compounds as herein described the bleaching agent being used in an amount of from 0.5 to 10% by weight based on the oil or fat, and the phase transfer catalyst being used in an amount of from 0.2 to 10 mole % based on the bleaching agent said process being carried out at temperatures not exceeding 80°C and at pH of 7 to 11.

Compl. Specn. 24 pages. Drg. Nil.

Class: 23 H, 143 D 4 & 42 A 1. 152719.

Int. Class : B65b 19/00, B65d 85/08.

"VARIABLE CAPACITY RESERVOIR FOR BAR SHAPED ELEMENTS, PARTICULARLY CIGARETTES".

Applicant : G. D. SOCIETA PER AZIONI, AN ITALIAN COMPANY, OF VIA POMPONIA 10, 40133 BOLOGNA, ITALY.

Inventor : ENZO SERAGNOLI.

Application for patent No. 533/Del/79 filed on 24th July, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims.

A variable capacity reservoir for bar shaped elements, particularly cigarettes, characterised by comprising at fixed support member in the form of a screw of substantially vertical axis; a mobile member in the form of a nut screw coupled to said fixed member, said mobile member comprising a helical wall arranged to support at least one layer of said bar shaped elements disposed facing and radial to said fixed member; reversible drive means for rotating said mobile member with respect to said fixed member; and a loading unloading station for said bar shaped elements disposed in a fixed position relative to said fixed member and comprising fixed wall means for supporting said bar shaped elements and slidably coupled to said helical wall.

Compl. Specn. 12 pages. Drgs. 3 Sheets.

Class. 131 A2. 152720.

Int. Class : E21d 15/00.

"A CLOSED CIRCUIT HYDRAULIC PROP FOR THE SUPPORT OF MINE ROOFS WITH AN IMPROVED RELIEF VALVE MECHANISM"

Applicant : COUNCIL OF SCIENTIC AND INDUSTRIAL RESEARCH, RAFI MARG NEW DELHI-110001 INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SARBASHREE AMAL KUMAR DATTA, MANINDRA NATH TARAFDER, PRITHWIRAJ ROY & SUBHERENDU BAGCHI.

Application for patent No. 544/Del/79 filed on 28th July, 1979.

Complete specification left on 14th December, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

3 Claims.

A closed circuit hydraulic prop for the support of mine roofs with an improved relief valve mechanism comprising a pressure cylinder in the form of an outer tube mounted on a base plate, an inner tube sliding within the said pressure cylinder, as a reservoir for hydraulic fluid and fitted with a head plate at its top, a piston head at lower end thereof and incorporating within the body a pump mechanism, a release and a relief valve mechanism for the hydraulic fluid to raise or lower the prop in relation to the mine roof, wherein the improvement comprises in that the valve mechanism consists of a conical valve seat held by a piece of cylindrical valve body movable within a cage guide against a spring mechanism to provide an outlet for the hydraulic fluid from the pressure cylinder to the inner tube reservoir under yielding load of the prop.

Provisional specification 6 Pages. Drawing 4 Sheets.

Complete specification 8 Pages. Drawing 3 Sheets.

Class. 61 A, K. 152721.

Int. Class : F26b 3/04, 17/10.

"AN APPARATUS FOR CONDITIONING LEAF MATERIAL AND A PLANT INCORPORATING THE SAME".

Applicant : HAMBRO MACHINERY LIMITED, A BRITISH COMPANY, OF CHANDOS STREET, NETHERFIELD, NOTTINGHAM, ENGLAND.

Inventor : DERRICK WILLIAM BROOKS.

Application for patent No. 551/Del/79 filed on 1st August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch New Delhi-110005.

11 Claims.

A conditioning apparatus for conditioning leaf material comprising a conditioning chamber disposed above gas distribution means, means for supplying gaseous medium to said chamber through said gas distribution means, said gas distribution means comprising an apertured plate having a mesh arranged on the gaseous medium supply side thereof and having a resistance to flow of gaseous medium which increases as the rate of flow through the distribution means increases, whereby when the apparatus is in use the leaf material to be conditioned is maintained in a fluidised state.

Complete specification 9 pages. Drawing 6 Sheets.

Ind. Cl. 32C + 32E + 55 F. 152722.

Int. Cl. C 12b 1/00 C 12k 1/00.

PROCESS FOR PRODUCING A HETEROPOLYSACCHARIDE.

Applicant : HINDUSTAN LEVER LIMITED 165/166 BACKBAY RECLAMATION BOMBAY-400 020, MAHARASHTRA, INDIA.

Application No. 201/BOM/80 filed July 8, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

8 Claims.

1. A process for producing a heteropolysaccharide which comprises from 40 to 45% by weight glucose, from 10 to 20% by weight galactose from 25 to 30% by weight mannose, from 6 to 13% by weight gluco ronic acid and from 0 to 1.5% by weight fucose, a 1% by weight solution of said heteropolysaccharide having pseudoplastic properties, a consistency at 20°C of at least 150 poise and a yield stress value of 20°C of at least 30 dynes/cm^2 which comprises the steps of :

(i) cultivating a strain of a micro organism containing genetic material, as herein described specifying said heteropolysaccharide synthesis, under submerged aerobic conditions in an aqueous culture medium comprising a source of carbon, a source of nitrogen, a source of iron, a source of magnesium and a source of phosphorous, the pH of the culture medium being maintained at a value of from 4.5 to 7.5 until substantial formation of heteropolysaccharide has occured, and

(ii) isolating said heteropolysaccharide from the culture medium at a temperature of at least 50°C at pH above 7.

Comp. Specn. 66 pages. Drgs. Nil.

OPPOSITION PROCEEDINGS

(1)

The application for patent No. 148769 made by Myron Grant Hampton and David John Millin in respect of which opposition was entered by Macneill & Magor Limited as notified in the Gazette of India, Part-III, Section 2 dated the 16th January, 1982, the opposition has been dismissed and ordered that a patent to be sealed.

(2)

An opposition has been entered by Belpahar Refractories Ltd. to the grant of a patent on application No. 151808 made by Orissa Cement Limited.

(3)

An opposition has been entered by Goodluck Auto Industries to the grant of a patent on application No. 151864 made by Gold Seal Engineering Products Private Limited.

(4)

An opposition has been entered by SLM-Maneklal Industries Limited to the grant of a patent on application No. 151868 made by Primatex Machinery Pvt. Ltd.

PATENTS SEALED

147310 147463 148015 148190 149995 150303 150430 150809 151520 151534 151552 151572 151573 151576 151577 151578 151584 151586 151587 151588 151589 151598 151599 151602 151604 151606 151608

AMENDMENT PROCEEDINGS UNDER SECTION 57 OF THE PATENTS ACT, 1970

The Amendment proposed by Hindustan Machine Tools Limited, in respect of Patent Nos. 148579, 148681 to 148683, 148758, 148785 to 148795 as advertised in Part III, Section 2, of the Gazette of India dated the 15th October, 1983 has been allowed.

CHEMICAL LIST NO. 1

COMMERCIAL WORKING OF PATENTED INVENTION

The following Patents in the filed of chemical Industry are not being Commercially worked in Innia as admitted by the Patentees in the statements fied by them under Soction 146(2) of Patents Act, 1970, in respect o calender year 1982, generally on account of want of requosts for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contract the Patentees for the grant of a Licence for the purpose.

Sr. No.	Patent No.	Date of Patents	Name and Address of Patentees	Title of the invention
1	2	3	4	5
1.	115300	5-4-1968	MONSANTO COMPANY of 800 North Lindbergh, Boulevard, St. Louis, Missouri 63166, U.S.A.	Production of carboxylic acids & easters.
2.	115800	7-5-1968	SNAMPROGETTI S.PA. of 16 corso, Venezia, Milan, Italy.	Process for the production of urea.
3.	116552	28-6-1968	SNAMPROGETTI s.p.a. of 16 Corso Venezia, Milan, Italy.	Process for the production of urea.
4.	116968	27-7-1968	SNAMPROGETTI sp.p.a of 16 Corso Venezia, Milan, Italy.	Process for the production of urea having a low corbonate content.
5.	119801	11-2-1969	Do.	Process for the catalytic hydrogenation of hydrocarbons for the prodction of high viscosity index lubricating oils.
6.	120369	17-3-1969	MONSANTO COMPANY of 800 Nortn lindbergh, Boulevard, St. Louis Missouri 63166, U.S.A.	Inhibiting premature vulcanization of diene rubbers and dyeing rubber vulcanizations compositions.
7.	121974	24-6-1969	SNAMPROGETTI s.p.a. of 16 Corso, Venezia, Milan, Italy.	Fibres containing enzymes process for their preparation and their use in enzymatic reactions.
8.	123569	14-10-1969	i) KUMIAI CHEMICAL IND. CO. LTD. ii) MITSUI TOATSU CHEMICAL INC. of (i) NO. 4026, IKENHOTA, 1-chome, Taito-ku, Tokyo, Japan (ii) of Kasumigaseki Bldg. 8F. No. 2-5, 3-Chome, Chuyoda-ku, Tokyo, Japan.	Mixed herbicide composition.
9.	123598	16-10-1969	E.I.DU PONT DE NEMOURES & CO. of Wilmington Delware, U.S.A.	A Permeation separation apparatus for separating fluids and process for such separation.
10.	124545	22-12-1969	SNAMPROGEITI S. p.a. of 16 Corso Venezia, Milan, Italy.	Improvements in or relating to the production of urea.
11.	124558	23-12-1969	BENILITE CORPORATION OF AMERICA OF 233 Broadway, New York, Newyork 10001, UNITED STATES OF AMERICA (U.S.A.)	Benificiation of Ilmenite.
12.	125177	6-2-1970	ISHIHARA SANGYO KAISHA LTD. of No. 3-11, Edobori, 1-Chome, Nishi-ku Osaka, Japan.	A process for the production of a titanium dioxide concentrate.
13.	125271	3-3-1969	SHERRITT GORDON MINES LIMITED, of 2800 Commerce Court, West, Toronto, ontario, Canada.	Process for treating low iron nickel ferrous ores.
14.	125334	6-3-1969	HALDOR FREDERIK AXEL TOPSOE of Frydenlundsvg, Vedback, Denmark.	High temperature water gas shift. reactions, catalysts and process for their preparation.
15.	125531	2-3-1970	IMPERIAL CHEMICAL INDUSTRIES of Imperial Chemical House, Mill bank, London S.W.1, Englan .	Calalyst precursor method of making the same and process of methanol synthesis employing a catalyst made by reducing catalyst precursor.

1	2	3	4	5
16.	125741	16-3-1970	SAINT-GOBAIN INDUSTRIES of 62 Boulevard Victor Hugo, 92209 Neuilly Sur Seine, France.	Process and apparatus for the incorporation of additives into molten glass.
17.	125857	24-3-1970	JOSEF MEISSNER of S. Koln. Baynenthal, Bayenthalgurtel 16—20 Postfach 76 Federal Republic of Germany	A process for the separation of an emulsion.
18.	125908	25-3-1970	SAINT-GOBAIN INDUSTRIES of 62 Boulevard Victor Hugo, 92209, Neuilly Sur Seine, France.	Improvements relating to a process and apparatus for hydrogenisation of molten glass.
19.	125984	28-5-1969	HALDOR FREDERICK AXEL TOPSOE of Frydenlundsvej, Vedbeak Denmark a citizen of Denmark.	Improvements in or relating to the preparation of Catalysts.
20.	125991	30-3-1970	SNAMPROGETTI SPA. of 16 Corso Venezia, Milan, Italy.	Purification of Urea solutions.
21.	126626	15-5-1970	AMERICAN CYANAMID CO. of Wayne, New Jersey, U.S.A.	Absorbable polyglylolic acid suture of enhanced in-vivo strength retention and method and apparatus for preparing same.
22.	126800	25-5-1970	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for the production of pellets of urea having a low biuret contents.
23.	126882	1-6-1970	AMERICAN CYANAMID COMPANY of Township of Wayne, New Jersey, U.S.A.	Storage stable package for absorbable poly glycolic acid sutures and process for preparing the same.
24.	126902	2-6-1970	Farbwerke Hoechst Aktiengesellschaft Vormals meister Lucius and Bruning of 45 Brunings trasse, Frankfurt/Main Federal Repulic of Germany.	Process for the manufacture of water soluble monoazo dyestuffs process dyeing, printing or colouring toxtile materials using said dyestuffs and textile materials so dyed coloured or printed.
25.	127104	16-6-1970	ETHICON INC, of Sommerville, Now Jersey, U.S.A.	Polypropylene non-absorbable suture.
26.	127366	2-7-1970	(i) Metallurgical Processes Ltd. (ii) Imperial Smelting Corpn. (iii) Metallurgical Development Company of i) and (iii) Trust Bldg. Frederic Street, Nassan, Bahamas and (ii) of Austrat House Basinghall Avenne, E.C-2 in the city of London, England.	Improvements in or relating to condensation of metal vapour.
27.	127492	10-7-1970	Wilhelm Scholkmann, of 581 Wiffen crengeldangstr 85 a German Federal Republic .	Process and device for vulcanization of prevulcanized threads orrings with normal or higher profiles.
28.	127505	13-7-1970	(i) Metallurgical Processes Ltd. (ii) Imperial Smelting Corpn. (iii) Metallurgical Development Corpn. of (i) and (iii) Trust Bldg. Frederik Street, Bahamas and (ii) of Austrat house, basing hall avenue E.C. 2 in the City of London, England.	The preparation of feed material for a blast furnace.
29.	127513	13-7-1970	UNITED KINGDOM ATOMIC ENERGY AUTHORITY of 11 Charles II, Street, London S.W. 1, England.	Reverse osmoses membrane assemblies.
30.	127626	20-7-1970	SANMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for the extraction of aramatic hydrocarbons.
31.	127646	21-7-1970	SANMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for the separation of conjugated diolefins from mixtures containing the samo.
32.	127658	22-7-1970	SNAMPROGETTI S.P.A. of 16 Corso, Venezia, Milan, Italy.	Process for the extraction of aromatic hydrocarbons from mixtures of aromatic and allphatic hydrocarbons.

1	2	3	4	5
33.	127753	28-7-1970	Farbwerke Hoechst Aktiengesellschaft, Vormals Meistec Lucius and Bruning of 45 Bruning strasse, Frankfurt/Main, Federal Republic of Germany.	Process for the manufacture of cooper containing monoazo dyestuffs.
34.	127973	11-8-1970	Union Carbide Corporation, of 270 Park Avenue, New York State of New York 10017, U.S.A.	Cryogenic air separation process.
35.	127981	11-8-1970	ISHIHARA SANGYO KAISHA LTD. of No. 3-11 Edobari 1-chome, Nishi-ku, Osaka, Japan.	Process for producing titanium dioxide concentrate
36.	128193	26-8-1970	BENSON FIELD & EPES of 640 Spruce Lane, Berwyn, Common wealth of Pennsylvania, U.S.A.	Separation of Co_2 & H_2S from gas mixtures.
37.	128278	2-9-1970	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for the production of ethylene oxide.
38.	128337	8-9-1970	BENSON, FIELD & EPES of 640 Spruce Lane, Berwyn, Commonwealth of Pennsylvania, United States of America.	Method for the removal of Co_2 & H_2S from gas mixtures.
39.	128386	11-9-1970	TEDCO TEXTILE DEVELOPMENT CO A/S. of St. clave Gate, 218 Oslo 1, Norway.	Apparatus for treatment of fabrics with liquid amonia.
40.	128542	22-9-1970	TEXACO DEVELOPMENT CORPORATION, of 135, East 42nd street New York, State of New York, 10017, U.S.A.	Improvements in or relating to the production of synthesis gases and fuel gases.
41.	128566	23-9-1970	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ, B.V. of Carel Van Bylandtlaan 30, the Hauge, The Netherlands.	A process for the removed of solid particles from an aquous suspension and an apparatus therefore.
42.	128576	24-9-1970	Universal Oil Products of 30 Algongriene Road, Desplaines—Illinois, USA.	Continuous reforming regeneration process.
43.	128679	3-10-1970	M & T Chemicals Inc. of American lane, Greenwich, Conneticut, U.S.A.	Process for preparing an electrocoated article composition therefor an article so prepared.
44.	128799	13-10-1970	Farbwerke, Hoechst Aktiengesellschaft, Vormals, Meister, Lucius and Bruning, of 45 Bruning strasse, Frankfurt/Main, Federal Republic of Germany.	Process for preparing water soluble anthraquinone dyestuffs.
45.	128907	20-10-1970	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for the production of urea.
46.	129095	30-11-1970	HOECHST AKTIENGASELLSEHAFT of 6230 Frankfurt/Main 80 Federal Republic of Germany.	Process for preparing water soluble reactive Xanthenium dyestuffs.
47.	129162	10-11-1970	SHERITT GORDON MINES LIMITED of 2800 Commerce Court West, Toronto, Ontario, Canada.	Method for extracting Nickel and cobalt values from latetrite ore.
48.	129231	21-5-1971	TEXACO DEVELOPMENT CORPORATION of 135 East 42nd Street, New York 10017, U.S.A.	Process for the production of synthesis gas.
49.	129263	17-11-1970	SNAMPROGETTI S.P.A. of 16 Corso Venezia, Milan, Italy.	Process for treating effluent gases in the ammonia synthesis.
50.	129304	19-11-1970	FARBWERKE HOECHST AKTIENGESELLSCHAFT, Vormals Meister Lucius and Bruning of 45 Brunningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for the preparation of amino phenyl alkyl ethers.
51.	129349	28-7-1971	HINDUSTAN LEVER LIMITED of 165-166, Backbay Reclamation, Bombay-20, India.	Process for preparing and catalyst.

1	2	3	4	5
52.	129375	24-11-1970	UDDEHOLMS AKTIEBOLAG of 68305, Hagfors, Sweden.	Method and device for accelerating the solidification of drops in he manufacture of powder.
53.	129438	30-11-1970	UNIVERSAL OIL PRODUCTS, of Ten UOP Plaza-Algonguin & Mt. Prospect Roads, Des Plaines, Illnois, U.S.A.	Process for the production of para-xylene and gasoline.
54.	129569	11-12-1970	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIZ, B.V. of Carel Van Bylandtlaan, 30 The Haguo, The Netherlands.	A process for producing a substnatially sulphur free gas stream and hydrogen sulphide rich gas stream from claus off-gases.
55.	129618	16-12-1970	Castrol Limited of Burmah-Castrol House, Marylebone Road, London, NW 15AA, ENGLAND	Hydraulic fluid comprising synthetic orthoester and process thereofore.
56.	129643	17-12-1970	FARBWERKE HOECHST AKTIENGESSELLSCHAFT VORMALS MEISTER, LUCIUS & BRUNING of 45, Bruningstrasse, Frankfurt/ MAIN, Federal Republic of Germany.	Process for the manufacture of water soluble monoazo dyestuffs.
57.	129757	28-12-1970	MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD. of 1006, Oaza Kadoma, Kadoma-shi osaka, Japan.	A method for producirg manganese dioxide electrolytically.
58.	129769	29-12-1970	UNIVERSAL OIL PRODUCTS OF Ten UOP Plaza Algonquin & Mt. Prospect Roads Des Plaines I llinois, USA.	A process for the production of a selected atomatic hydrocarbon.
59.	129831	4-1-1971	UNIVERSAL OIL PRODUCTS of Ten UOP Plaza Algonquin & Mt. Prospects Roads, Desplaines illinois, U.S.A.	C8 alkyl aromatic isomerization process.
60.	129834	4-1-1971	THE LUBRIZOL CORPORATION OF Cleveland Ohio 44117, U.S.A.	Method for preparation of amidoalkano sulfonic acids.
61.	129855	6-1-1971	HINDUSTAN LEVER LIMITED of 165-166 Backbay Reclamation, Hindustan Lever House, Bombay-20, Maharashtra, India.	Extraction of tea and preparation of instant tea powder from the extract so obtained.
62.	129856	6-1-1971	JOHNSON & JOHNSON of 501 George street New Brunswick New Jersey, U.S.A.	Conformable adhesive sheet.
63.	129926	13-1-1971	LAPORTE INDUSTRIES LIMITED of Hanover House, 14 Hanover square, London W1R OBE ENGLAND	Process for treating oxide pigments.
64.	129961	15-1-1971	MITSUBISHI GAS CHEMICAL COMPANY INC. of 5-2, Marunouchi.	Process for producing a formaldehyde aqeous solution having a low methanol content.
65.	130009	20-1-1971	2-chome, chiyoda-ku, Tokyo, Japan. Shell Internationale Research Maatschappij N.V.—of Carel Van. Byl and tlaan 30, the Hague, the Netherlands.	Method for the automatic watching of an apparatus for the preparation of cooling of synthesis gas.
66.	130072	27-1-1971	The Lubrizol Corporation of Cleveland, Ohio, 44117—U.S.A.	High molecular weight malic and fumaric acid esters and esters and fuds containing the same.
67.	130088	28-1-1971	SOLVAY & CIE, of 33 Rue du prince. Albert, B-1050 Brussels, Belgrum.	Process for the preparation of a zeigler-natta type catalyst.
68.	130178	4-2-1971	HINDUSTAN LEVER LIMITED of Hindustan Lever House, 165-166 Backbay Reclamation, Bombay-20, Maharashtra, India.	Improvements relating to the treatment of karanja oil.
69.	130270	15-2-1971	SNAMPROGETTI S.P.A. of 16 corso, Venezia, Milan, Italy.	Process for the separation of a partially hydrogenated polyamine and aluminium.

1	2	3	4	5
70.	130282	16-2-1971	Farbwerke Hoechst Aktiengesellschaft Vormals Meister Lucius & Bruning of 45 Bruning strasso, Frankfurt /Main, Federal Republic of Germany.	Process for preparing water soluble monoazo dyestuffs.
71.	130287	16-2-1971	E.I. DU PONT DE NEMOURS & CO. of Wilmington, Delwaro, U.S.A.	Water-in-oil emulsion type blasting.
72.	130367	25-2-1971	FARBWERKE HOECHST AKTIENGESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING, of 45 Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Metal Complex compounds of the mono azo dyestuffs and process for their preparation.
73.	130371	25-2-1971	DEUTSCHE GOLD-UND SILVER-SCHEIDEAN-STACT VORMALS ROESS-LER of 9 Weissfranenstrasse frankfurt (Main) Federal Republc of Germany.	Calcium thioetate.
74.	130379	25-2-1971	F.L. SMITH & CO. A/S of 77 Vigerslev Alle, DK-2500 Copenhagen Valby, Denmark.	Treatment of cement raw material and plants for use therein.
75.	130416	1-3-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B V. of Carel Van Bylandtlaan 30 the Hague, the Netherlands.	A process for the selective removal of hydrogen sulphide from gases containing hydrogen sulfide and carbon dioxide.

COMMERCIAL WORKING OF PATENTED INVENTION

The following patents in the field of chemical Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of Patents Act, 1970, in respect of Calender year 1982, generally on account of want of requests for licences to work the Patented inventions. Persons who are interested to work the said patents commercially may contact the Patentees for the grant of a licence for the purpose.

Sr. No.	Patent No.	Date of Patent	Name & Address of Patentees	Title of the Inventions
1	2	3	4	5
1.	130489	5-3-1971	MEISTER LIJCIUS & BRUNING, of 45 Brunning Strasse, Frankurt/Main Federal Republic of Germany.	Process for the manufacture of water soluble monoazo dyestuffs.
2.	130590	23-3-1971	-do-	Process for the manufacture of metal contalning azo dyestuffs.
3.	130719	25-3-1971	Univarsal Oil Production of Ten UOP Plaza-Algonquin & Mt. Prospects Road, Des Plaines, Illinois, U.S.A.	Apparatus for reconditioning and reforming catalyst.
4.	130775	29-3-1971	Shin-Estu Chemical Company Ltd., of 4-2 Marunouchi 1-chome chiyoda-ku, Tokyo, Japan.	Method for suspension-polymerizing vinyl chloride.
5.	130799	30-3-1971	UBE INDUSTRIES LIMIED, of 12-32, 1-Chome, Nishihommachi, Uke-shi, Yamaguchi-ken, Japan.	The process for treatment of a reaction product obtaied by oxidation of cyclohexane.
6.	130800	3-3-1971	SNAMPROGETTI S. P. A. OF 16 Corso Venezia, Milan Italy	Process for the production of urea.
7.	130801	30-3-1971	SNAMPROGETTI S. P. A. OF 16 Corso, Venezia, Milan, Italy.	Process for producing urea.
8.	130891	7-4-1971	Univeral Oil Products of Ten Uop Plaza Algonquin, Mt. Prospect Roads, Desplaines, Illinois, U.S.A.	Lubricating oil base stock production.

1	2	3	4	5
9.	130923	12-4-1971	STAMICARBON N.V. of Van ds Maesenstraat 2, Heerlen, The Netherlands.	Process for increasing the corrosion resistance of auster itic stainless steels.
10.	130046	20-4-1971	SIN-ETSU CHEMICAL COMPANY, of 4-2 Marunouchi, 1-chome, chiyoda-ku, Tokyo, Japan,	Process for preparingpoly vinyl chloride by suspension, polymrization.
11.	131139	27-4-1971	Dunlop Holding Limited of Dunlop House, Ryder Street, St. James, London SW1, England.	Contact adhesives.
12.	131235	4-5-1971	CENTRAL GLASS CO. LTD. OF 5253, Oaza, Okide. Yamaguchi-ken, Japan.	Process for the production of high quality synthetic cryolite.
13.	131248	5-5-1971	SANKYO CO. LTD., of 1-6, 3-chome, Nihonbashi, Honcho, Chuo-ku, Tokyo, Japan.	Soil fungicides.
14.	131311	11-5-1971	KNAPSACK AKTIENGE SELLSCHAFT, of Knapsack Near Koln, Federal Republic of Germany.	Eletrolytic production of manganese dioxide in modification.
15.	131405	18-5-971	International Nickel Limited of Thames House Millbank, London SWIP 4QF.	Treatment of corrosion resistent chromium containing alloys.
16.	131458	22-5-1971	SNAMPROGETTI S. P A. of 16 Corso Venezia, Milan, Italy.	Process for dehydrating ammonia synthesis gases.
17.	131469	24-5-971	Shell Internationale Research Maatschapnij B. V., of Carel Van, Bylandtlaan, 30, The Hague, The Netherlands.	Process for the isomorization of alkylaromatic hydrocarbos.
18.	131502	26-5-1971	MITSUBISHI JUKOGYO KABUSHIKI KAISHA of 5-1, Marunouchi 2-Chome chiyoda-ku, Tokyo-Japan.	Reference simple sutiable for use in a method of determining non-destructively a component of a metallic material.
19.	131518	28-5-1971	EISENWERK-GESEUSCHAFT MAXIMILTANSHUTTE, m.b.H. of Sulzbachrosenberg Hutte, West Germany.	Method of convertor for refining pig iron.
20.	131536	29-5-1971	STAMICARBON N. V. of P. O. Box 10, Geleen, The Netherlands.	Process and apparatus for recovery of ammonia and carbon dioxide from the tail gas of a wire synthesis.
21.	131552	31-5-1971	FARBWERKE HOECHST AKTIENGESELLS-CHAFT VORMALS MEISTER LUCIUS & BRUNING of 45 Bruningrasse, Frankfurt/Main, Federal Republic of Germany.	Process for the manufacture of acyl acetic acid-arylamide.
22.	131684	11-6-1971	IMPERIAL CHEMICAL HOUSE of Imperial, Chemical House, Millbank, London, S.W.1. England.	Non-woven continuous filament material and process for making them.
23.	131782	18-6-1971	Universal Oil Products of Ten Uop Plaza-Algonquin, Mt. Praspect Roads, Des, Plaines Illinois.	Black oil conversion process-initial operation procedure.
24.	131894	28-6-1971	HALDOR FREDERIK AXEL TOPSOE, of Frydenlundsvej, 2950 Vedbaek, Denmark.	Endothermic catalystic process and apparatus thereof.
25.	131896	28-6-1971	TEXACO DEVELOPMENT CORPORATION of 13 East 42nd Street, New York, New York-10017, U.S.A.	A partial oxidation process for producing synthesis gas.
26.	131939	30-6-1971	FARBWERKE HOECHST AKTIENGESEUSCHAFT VORMALS MEISTER LUCIUS & BRUNING, of 45 Brunningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for preparing water soluble metalliferous disazo dyestuffs.

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27.	131968	2-7-1971	FARBWERKE HOECHST AKTIEN GESELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING of 45 Brunningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for manufacturing novel Water soluble monoazo dyestuffs.
28.	132081	8-7-1971	FARBVEBRKE HOECHST AKTIENGESBUSCHAFT VORMALS, MEISTER LUCIUS & BRUNING of 45 Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for the manufacture of fast dyeings or printings on fibrous materials containing cellulose.
29.	132048	9-7-1971	UNIVERSAL OIL PRODUCTS INC. of Ten UOP Plaza-Algonquin & Mt. Prospect Prospect Roads, Des, Plaines, Illinois, U.S.A.	Solid phosphoric acid catalyst and method of manufacture & use thereof.
30.	132086	12-7-1971	HALDOR FREDERIK AXEL TOPSOE, of Frydenlundsvej, vedback Denmark.	A process for the purification of crude methenol.
31.	132263	27-7-1971	OSTERREICHISCHE - AMERIKANISCHE MAGNETT, A. G. of Badenthein, Garenthia, Austria.	Process of producing a sintered refractory material.
32.	132267	27-7-1971	JOHNSON & JOHNSON of 501 George Street, New Brunswick, New Jersey, U.S.A.	Bonded non-woven fabrics method of making the same and synthetic resin binder compositions used therein.
33.	132282	28-7-1971	THE LUBRIZOL CORPORATION, of Cleveland, OHIO, 44117, U.S.A.	Thickened aqeous compositions containing acrylamido alkanesulphonate polymers useful as hydraulic fluids.
34.	132309	20-4-1972	HINDUSTAN LEVER LIMITED of 165/166, Backbay Reclamation, Bombay-400020.	A process for preparing an instant tea powder.
35.	132355	3-8-1971	FARBWERKE HOECHST AKTIENGESSELLSCHAFT VORMALS MEISTER LUCIUS & BRUNING of 45, Bruningstrasse, Frankfurt/Main, F.R.G.	Process for the preparation of Water Soluble monoazo dyestuffs.
36.	132454	10-8-1971	E. I. DU PONT DE NEMOURS & CO. of Wilmington, Delware, U.S.A.	Emulsion type blasting agent.
37.	132456	10-8-1971	TEXACO DEVELOPMENT CORPORATION of 135, East 42nd Street, New York, New York-10017, U.S.A.	A process for the production of carbon monoxide and hydrogen by direct partial oxidation and liquid hydrocarbon.
38.	132386	12-8-971	ALCAN RESEARCH & DEVELOPMENT LIMITED, of 1, Place Ville Marie, Montreal, Quebec, Canada.	Mothod of treating used carbon lining from an aluminium reduction cell.
39.	132545	16-8-1972	INDIAN EXPLOSIVES LTD. OF 34 Chowringhee, Calcutta-700071, Indian Public Limited Co.	Improved method and system for the preparation of thickened slurry explosives.
40.	132548	17-8-1971	HINDUSTAN LEVER LIMITED of Hindustan Lever House 165-166, Backbay Reclamation, Bombay-20.	Soap Synthetic detergent tablets.
41.	132576	19-8-1971	ALCAN RESEARCH & DEVELOPMENT LIMITED, of 1, Place Ville Marie, Montreal, quebec Canada.	Mothod of treating segregated material separated from a body of molten aluminium.
42.	132605	21-8-1971	COMBUSTION ENGINEERING INC. OF 1000, Prospect Hill Road Windsor, State of Connecticut, U.S.A.	Apparatus for initiating the heat generation phase of an electroslag refining process.
43.	132622	23-8-1971	UNIFOAM A. G. of Kirchweg 54, Glarus, Switzerland.	Improvements in or relating to the production of polymeric foam.
44.	132627	23-8-1971	ESTABLISSEMENT, SALGAD of Vaduz, Leicht, estein.	Explosive device.
49.	132648	24-8-1971	HOECHST AKTIENGESELLSCHAFT of 45 Bruningstrasse, Frank-furt/Main, F.R..	Process for the preparatin of monoazo pigments.

1	2	3	4	5
46.	132736	1-9-1971	USS ENGINEERS AND CONSULTANTS, INC. of 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Method for preparing high temperature blistering of copper coating electro deposited as copper substrates.
47.	132766	3-9-1971	UNIVERSAL OIL PRODUCTS, INC. of Ten Uop Plaza-Algonquin & Mt. Prospect Roads, Des, Plaines, Illinois, U.S.A.	Improved hydrocarbon separation process.
48.	132782	4-9-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ, B. V. Of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for preparing an improved catalysts for producing oxirane compounds by epoxidizing olefines with hydro peroxides.
49.	132827	8-9-1971	SOLVAY & CIE, of 33, Rue du Prince, Albert, B-1050, Brussels, Belgium.	Process for polymerization of olefins.
50.	132828	8-9-1971	Do.	Do.
51.	132854	9-9-1971	TOYO ENGINEERING CORPORATION of 2-5, 3-chome kasumigaseki, Chiyoda-ku, Tokyo, Japan.	Process for manufacturing gaseous mixtures rich in hydrogen.
52.	132878	13-9-1971	UNION CARBIDE CORPORATION OF 270 Park Avenue, New York, State of New York 10017, U.S.A.	Process for separating normal paraffins from admixture with non-normal hydrocarbons.
53.	132908	14-9-1971	J. H. FENNER & CO. LTD. of Marfleet, Hull HV 9 SR England.	A method of bonding a surface of polyvinyl chloride to a surface of Natural rubber or to a surface of a sulphur modified chloroprene elastomer.
54.	132913	15-9-1971	UNIVERSAL OIL PRODUCTS OF 10 UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Process and apparatus for catalytic cracking of hydrocarbons.
55.	132926	16-9-1971	ESSO RESEARCH & ENGINEERING COMPANY, of 1900, Linden Avenue, Linden New Jersey, U.S.A.	A process for chilling a solution of a waxy oil in a liquid gaseous dewaxing solvent for crystallizing was in a filterable form.
56.	132929	16-9-1971	SHERRITT GORDON MINES LTD. OF 25 King Street West Toronto, Ontario, Canada.	Method for preparing Nickeliferous laterite ore mixtures for reduction roasting.
57.	132930	16-9-1971	FARBWERKE HOECHST A. G. VORMALS MEISTER LUCIUS & BRUNING. of 4 Btuningstrasse, Frank-Main, F.R.G.	Process for the manufacture of Water soluble fibre-reactive disazo dyestuffs and their metal complex compounds.
58.	132943	17-9-1971	UNIVERSAL OIL PRODUCTS INC. OF TEN UOP PLAZA-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Process for separating para-xylene from a mixture of C8 hydrocarbons.
59.	132995	21-9-1971	SNAMPROGETTI, S. P. A. of 1 corso Venezia, Milan Italy.	Process for the production of a reducing gas for blast furnaces.
60.	133022	23-9-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. of Carel Van Bylandtlaan 30, the Hague, The Netherlands.	Apparatus for the decomposition of unconverted organic peroxy compounds present in the Reaction production effluent obtained by the epoxidation of olefinic compounds.
61.	133051	25-9-1971	L'AIR LIQUIDE SOCIETE ANONYME POUR L'ETUDE ET L'EXPLORTATION DES PROCEDES GEORGE CLAUDE, of 75 Quai D'orsay:75 Paris (7eme), France.	Process for removing sulphur dioxide nitrogen oxide & sulphuric acid vapour impurities from industrial fumes.
62.	133066	1-10-1971	BENILITE CORPORATION OF AMERICA of 233 Broadway, New York, U.S.A.	Pre-leaching or reduction treatment in the beneficiation of titaniferous iron ores.

1	2	3	4	5
63.	133124	5-10-1971	HALDOR FREDERIK AEL TOP SOE of Frydenlundsvej, 2950 Vedback, Denmark.	Method of catalytic decomposition of ammonia.
64.	133137	6-10-1971	Farbwerke Hoechst A. G. Vormals Meister lucius, of 45 Bruningstrasse, Frankfurt/Main, F.R.G.	Process for preparing a water soluble monoazo dyestuffs.
65.	133139	6-10-1971	Do.	Process for the manufacture of metal complex monoazo dyestuffs.
66.	133172	7-10-1971	ETAT FRA CAISE, Mepresente Par le Ministre de la, Defence Nationale of 4 Avenue, de la Porte d' Issy Paris ISO, Franco.	Improved process for the manufacture of phosgene.
67.	133176	8-10-1971	HINDUSTAN LEVER LIMITED OF HINDUSTAN LEVER House 165/166 Backbay Reclamation, Bombay-20, India.	Cosmetic total sun screen composition.
68.	133233	14-10-1971	THE MEAD CORPORATION OF TULBOLT TOWER DAYTON Ohio 45402 U.S.A.	Improved reduction oxidation process.
69.	133297	21-10-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. of Carel Van Bylandtlaan 30, The Hague The Netherlands.	A process for producing metallic silver deposits on the surface of porous refractory catalyst support.
70.	133325	22-10-1971	Farbwerkehoechst Akg. Vormals Meister Lucius & Bruning of 4 Bruningstrasse Frankfurt/Main F.R.G.	Novel process for the manufacture of benzimidazalone (2).
71.	133356	26-10-1971	PFIZER I C. F 235 East 42nd Street, New ork, State of ew ork, U.S.A.	Fermentation process for the production of citric acid.
72.	133378	27-10-1971	FARBWERKE HOECHST A. G. VORMALS MEISTER LUCIUS & BRUNING. OF 46 Bruning strasse, Frankfurt/Main, FEDERAL REPUBLIC OF GERMANY.	Process for the manufacture of new Water soluble fibre-reactive azo dyestuffs.
73.	133394	28-10-1971	AMCHEM PRODUCT, INCORPORATED. of Bookside Avenue, Pennsysylwania, U.S.A.	Plant growth regulating compositions.
74.	133408	29-10-1971	UNION CARBIDE CORPORATION OF 270 Park Mvenue, New ork, State of New ork-1017, U.S.A.	Selective absorption gas separation process.
75.	133483	4-11-1971	Do.	Apparatus for use in electoless Nickel planing or article and particularly patterns and coreboxes in molding and core forming apparatus.

RENEWAL FEES PAID

119967 120148 120165 120240 120399 120800 122518 124976
126012 130253 130286 130320 130775 130830 134628 134656
134662 134674 134783 134816 134832 134853 134885 136029
137731 138595 138748 139216 139245 139722 139753 139895
140118 140518 140676 140747 140784 141351 141733 141853
141890 142049 142926 143425 143587 143648 143740 143932
144386 144454 144506 144525 144657 144693 144900 145033
145157 145413 145518 145900 146010 146270 146271 146334
146366 146778 147206 147207 147495 148086 148118 148919
149358 149493 149516 149545 149605 149671 149773 149975
150078 150156 150227 150543 150590 150596 150619 150631
150958 150962 150968 151061 151126 151132 151133 151140
151144 151204 151249 151266

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 122203 dated the 10th July, 1969 made by The Tata Iron and Steel Company Limited on the 3rd June, 1983 and notified in the Gazette of India, Part III, Section 2 dated the 8th Oct., 1983 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 122439 dated the 25th July, made by Tata Iron and Steel Company Limited on the 3rd June, 1983 and notified in the Gazette of India, Part III, Section 2 dated the 8th October, 1983 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 142314 granted to Council of Scientific and Industrial Research for an invention relating to "improvements in or relating to the electrolytic reduction of 2, 4 dinitrotoluene to 2, 4 diamino toluene".

The patent ceased on the 22nd December, 1982 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 21st January, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-17 on or before the 17th May 1984, under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 142800 granted to Jal Ardeshir Meher Homji for an invention relating to "a cassette for holding X-ray film for taking X'ray picture".

The patent ceased on the 28th November, 1982 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 7th January, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-700017 on or before the 17th May 1984, under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 144085 granted to Council of Scientific and Industrial Research for an invention relating to "improvement in or relating to a digital transmission meter for the measurement of turbidity of fluid".

The patent ceased on the 24th December, 1982 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 21st January, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-700017 on or before the 17th May 1984, under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 143265 granted to Council of Scientific and Industrial Research, for an invention relating to "logic control system for 12 step three phase thyristor invertor".

The patent ceased on the 3rd December, 1982 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 7th January, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-700017 on or before the 17th May 1984, under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(7)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 144197 granted to Council of Scientific and Industrial Research, for an invention relating to "a process for treating industrial sludge containing hexavalent chromium from bichromate plants prior to its disposal".

The patent ceased on the 21st December, 1982 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 21st January, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-700017 on or before the 17th May 1984, under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(8)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 145046 granted to Council of Scientific & Industrial Research for an invention relating to "a traversing mechanism for imparting uniform linear motion to crystals and photographic plates or films in X-ray topography camera or similar equipment".

The patent ceased on the 17th December, 1982 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 21st January, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-700017 on or before the 17th May 1984, under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(9)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 145172 granted to Council of Scientific and Industrial Research for an invention relating to "an electrochemical process for the production of para toluidine from para nitrotoluene".

The patent ceased on the 6th December, 1982 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 7th January, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-17 on or before the 17th May 1984, under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(10)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 148857 granted to Scharfenbergkupplung G.m.b.H. for an invention relating to "elastic hinge of a central buffer coupling for rail cars".

The patent ceased on the 18th January, 1983 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 7th January, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-17 on or before the 17th May 1984, under Rule 69 of the Patents Rules, 1972. A written

statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(11)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 150472 granted to Council of Scientific and Industrial Research for an invention relating to "improved process for pre-treatment of stainless steel mandrels used in electroforming of copper foils".

The patent ceased on the 17th September, 1983 due to non-payment of renewal fees within prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 7th January, 1984.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-17 on or before the 17th May 1984, under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 153629. Khambati & Sons (a partnership firm registered under the Indian Partnership Act) of 43/A Dhanji Street, Motimahal, Bombay-400 002. State of Maharashtra, India. "A Magnifier". 7th November, 1983.

Class. 1. No. 153630. Khambati & Sons, (a partnership firm registered under the Indian Partnership Act) of 43/A Dhanji Street, Motimahal, Bombay-400 002, State of Maharashtra, India. "A Magnifier". 7th November, 1983.

Class. 1. No. 153513. United States Surgical Corporation, a corporation of the State of New York, having its offices at 150 Glover Avenue, Norwalk, Connecticut 06850 U.S.A. "Linear Surgical Stapling Device with permanent Anvil". 29th September, 1983.

Class. 3. No. 153514. United States Surgical Corporation, a corporation of the State of New York, having its offices at 150 Glover Avenue, Norwalk, Connecticut 06850, U.S.A. "Linear Surgical Stapling Device with permanent Anvil". 29th September, 1983.

Class. 3. No. 153668. Asian Advertisers, 20. Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, an Indian Partnership Firm. "Bottle Opener". 16th November, 1983.

Class. 3. No. 153670. Asian Advertisers, 20. Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400 004, Maharashtra, an Indian Partnership Firm. Slip Box". 16th November, 1983.

Class. 3. No. 153990. Aniall Products, 170 Bombay Talkies Compound, Malad (West), Bombay-400 064 State of Maharashtra India. "A Revolving Cassette Stand". 21st January, 1984.

Class. 3. No. 153335. F.S. Patanwala, (a registered Partnership firm) all Indian Nationals of Patanwala Industrial Estate, B. Shastri Marg, Ghatkopar, Bombay-400 086, Maharashtra, India "Container". 5th August, 1983.

Class. 3. No. 153986. Eagle Flask Private, Limited a Company incorporated under the Indian Companies Act, at Eagle Estate, Talegaon-410 507, Maharashtra State, India. "Bottle". 20th January, 1984.

Class. 4. No. 153325. Chatta Kunkatty Sreejayan, Sole Proprietor, trading as Sreesadan Beverages Co., Onden Road, Cannanore-670 001, Kerala, India. "a Bottle". 3rd August, 1983.

Class. 4. No. 153520. Ganga Narayan Ghosh, Indian Inhabitant whose address is : 6, Sheetal Palace, 1st Road, T.P.S. IV, Bandra (West) Bombay-400 050, State of Maharashtra, India. "Closed Garbage bins". 1st October, 1983.

Class. 4. No. 153240. McDowell & Co., a Company incorporated in India, 3 Second Line Beach, Madras-600 001, Tamil Nadu, India. "Glass Bottle". 7th July, 1983.

Class. 4. No. 153103. JG Glass Industries Ltd., Pimpri, Pune-411018, Maharashtra State, India, an Indian Company. "Nail Polish Bottle". 19th May, 1983.

Class. 4. No. 153104. JG Glass Industries Ltd., Pimpri, Pune-411018, Maharashtra State, India, an Indian Company. "Nail Polish Bottle". 19th May, 1983.

Class. 4. No. 153105. JG Glass Industries Ltd., Pimpri, Pune-411018, Maharashtra State, India, an Indian Company. "Nail Polish Bottle". 19th May, 1983.

Class. 4. No. 153106. JG Glass Industries Ltd., Pimpri, Pune-411018, Maharashtra State, India, an Indian Company. "Nail Polish Bottle". 19th May, 1983.

Class. 4. No. 153107. JG Glass Industries Ltd., Pimpri, Pune-411018, Maharashtra State, India, an Indian Company. "Nail Polish Bottle". 19th May, 1983.

Class. 4. No. 153108. JG Glass Industries Ltd., Pimpri, Pune-411018, Maharashtra State, India, an Indian Company. "Nail Polish Bottle". 19th May, 1983.

Class. 10. No. 153641. Canvas Shoe Company Private Limited, (a Company incorporated under the Provisions of the Indian Companies Act, 1956) of Bharat Insurance Building, Horniman Circle, Bombay-400 001, State of Maharashtra, India. "Footwear" 9th November, 1983.

Class.10. No. 153594. Vijay Industries, Swastik Industries Compound, Ram Baug, S. V. Road, Bombay-400 064. Maharashtra, an Indian Partnership Firm. "Footwear". 25th October, 1983.

Class. 12. No. 153280, J. K. Helene Curtis Limited, an Indian Company existing under the Companies Act 1956, of J. K. Building, N. Morarjee Marg, Ballard Estate, Bombay 400 038, Maharashtra, India. "A SOAP". 20th July, 1983.

Class. 13. No. 153544. Mohan Exports (India) Pvt. Ltd. Mohan House, Zamrudpur Community, Centre, Kailash Colony Extension, New Delhi-110 048, India, an Indian Company. "Textile". 7th October, 1983.

Class. 13. No. 153545. Mohan Exports (India) Pvt. Ltd., Mohan House, Zamrudpur Community, Centre, Kailash Colony Extension, New Delhi-110 048, India, an Indian Company. "Textile". 7th October, 1983.

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